

Date:	10/30/95	Job No.:	94039 T1
Attention:	Joseph J. Nowak		
Re:	Hexcel Corporation		
	Lodi Borough, Bergen County, NJ		
	ISRA Case NO. 86009		

Trenton, NJ 08625

**VIA:**☒

First Class Mail

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[illegible]

Remarks:

SIGNED:

Marjorie R. Piette  
Marjorie Piette

SDMS Document



**88278**

October 27, 1995

Joseph J. Nowak  
New Jersey Department of Environmental Protection  
Bureau of Environmental Evaluation and Cleanup Responsibility Assessment  
401 East State Street  
Trenton, NJ 08625

NJDEP  
INDUSTRIAL SITE  
EVALUATION ELEMENT  
CNO28  
TRENTON, N.J. 08625

OCT 31 1995

**SUBJ: Hexcel Corporation**  
**Lodi Borough, Bergen County, New Jersey**  
**ISRA Case No. 86009**  
**GEO File No. 94039**

Dear Mr. Nowak:

On behalf of Hexcel Corporation (Hexcel), the following is the progress report of activities carried out during July, August and September of 1995. This quarterly report is prepared in accordance with the Industrial Site Recovery Act (ISRA) requirements for the former Hexcel facility in Lodi, New Jersey.

The following topics are discussed in this progress report:

1. Ground Water/DNAPL/LNAPL Monitoring
  - a) Quarterly Monitoring
  - b) Monthly Monitoring
2. Product Recovery Program
  - a) Modifications to Product Recovery Program
  - b) DNAPL Recovery
  - c) LNAPL Recovery
3. Ground Water Treatment System
  - a) Sewer Connection
  - b) Evaluation and Testing of Ground Water Recovery System
  - c) Treatment of Basement Seepage Water
4. Off-Site Investigation
5. Waste Disposal Documentation
6. Schedule and Cost Estimates

## 1. Ground Water/DNAPL/LNAPL Monitoring

This section includes the results of quarterly monitoring performed in July 1995, and monthly monitoring performed in August and September 1995. Modifications to the New Jersey Department of Environmental Protection (NJDEP) approved "Groundwater/DNAPL/LNAPL Monitoring Plan" prepared by Killam Associates had been presented in our progress report dated October 24, 1994. The modifications were approved by the NJDEP in its June 12, 1995 letter. Sections 1a and 1b provide details for quarterly and monthly monitoring respectively.

1a. Hexcel conducted quarterly ground water elevation, DNAPL and LNAPL monitoring on July 6, 1995 in accordance with the monitoring plans. Results are tabulated in Table 1. Figures 1 and 2 illustrate shallow and deep ground water elevation contours respectively. Contour Map Reporting Forms are enclosed for each of the contour maps. Table 2 contains a summary of well construction data to accompany the Contour Map Reporting Form for Figure 1. Figures 1 and 2, Tables 1 and 2, and the reporting forms are located in Appendix A.

1b. On August 10 and September 13-15, 1995, Hexcel conducted monthly DNAPL and LNAPL monitoring in accordance with the monitoring plans and modifications approved by the NJDEP in its June 12, 1995 letter. Additionally, the following modifications were made to the monthly monitoring plan in the third quarter:

- RW6-3: Included in the monthly monitoring from August 1995 based on the solubility calculations which were provided in our July Progress Report.
- CW-15: Included in the monthly monitoring from September 1995 after DNAPL was detected in the well when an inventory of the pumping equipment installed in the recovery well was taken on August 30, 1995.

Results for August and September monthly monitoring are provided in Tables 3 and 4 located in Appendix B.

Hexcel will continue to modify the monthly monitoring by the addition or deletion of wells in accordance with the approved plan.

## 2. Product Recovery Program

This section includes results for the temporary product recovery program currently being implemented at the site. The details are discussed in the following subsections.

## 2a. Modifications to Product Recovery Program

In response to NJDEP's letter of June 12, 1995, Hexcel had resumed weekly product recovery on June 26, 1995 and also added product recovery at the numerous well locations specified in the July Progress Report. The additional wells increased the time and cost for product recovery substantially without significantly increasing the volume of product recovered. Beginning the third week of September, Hexcel modified the weekly product recovery program. The modifications were communicated to the NJDEP in our letter dated September 21, 1995 and are provided below. Though the weekly product recovery efforts will continue, the wells included in the program will be revised based on the criteria presented below.

- From "weekly product recovery" to "recovery at the time of monthly monitoring": Any well which has no measurable recovery for three concurrent recovery rounds. For the purposes of product collection, quantities greater than 0.1 gallon (approximately 1 cup) are considered to be measurable. We have found it impractical to separate product from water when the quantity of product in the mixture is less than a cup.
- From "monthly" to "weekly" product recovery: Any well that yields a measurable quantity of product during recovery.
- Hexcel will deviate from the above guidelines when it is deemed appropriate based on current and historical observations. For example, well CW-7 has failed to have measurable recovered product for the last eight weeks; yet its historical tendency to have significant amounts of product justifies its continuation in the weekly recovery program. CW-7 will be moved to the monthly monitoring program if no measurable amount of LNAPL is recovered from it for four more weeks.

## 2b. DNAPL Recovery

A temporary DNAPL recovery program, consisting of manually recovering product from affected wells on a weekly basis, was initiated on October 20, 1994. After one month, the program's frequency was reduced to twice a month due to a reduction in the quantity of product recovered. Product recovery continued at the rate of at least twice a month through the week of June 19, 1995. In accordance with the NJDEP's June 12, 1995 letter, weekly product recovery was resumed the week of June 26, 1995. Results are summarized in Table 5, located in Appendix C.

We had specified in the July Progress Report that the wells containing DNAPL, even at trace quantities, would be fitted with tubing to allow for product recovery using a peristaltic pump. Product recovery from MW-6, which was fitted with tubing on March 2,

1995, had indicated that pumping was a more efficient and effective method for recovery than using a bailer. Additional monitoring wells (MW-8, MW-26, RW6-1, RW7-1, RW7-4, RW7-5, CW-12 and CW-16), which had indicated presence of DNAPL, were fitted with tubing on August 20, 1995.

DNAPL was detected in CW-15 when all the recovery wells on site were opened on August 30, 1995 for taking an inventory of the pumping equipment installed in the wells. Approximately 0.5 gallons of DNAPL was bailed from the well. Subsequently, CW-15 has been included in the weekly product recovery program. CW-15 was fitted with tubing on October 13, 1995.

Note that, for the present, basement well point PB-2 (details in Section 3b) has been included in the weekly product recovery due to presence of measurable amounts of product in the well point.

We have attempted to pump DNAPL from the above-mentioned wells every week. A review of Table 5: Summary of Product Collection (DNAPL) indicates that we have not recovered measurable quantities of DNAPL from most of the wells for three weeks or more even with a peristaltic pump. Hexcel has modified the weekly program because increased product recovery efforts did not yield significant additional volumes of product recovered. The modifications were communicated to the NJDEP in our letter dated September 21, 1995 and are outlined in Section 2a.

## **2c. LNAPL Recovery**

Results for LNAPL recovery are summarized in Table 6 located in Appendix C. Significant quantities of LNAPL were recovered from MW-6 during the third quarter of 1995. LNAPL had not been detected in MW-6 prior to June 28, 1995. An absorbent pad was placed in the well following detection of LNAPL. Subsequently, weekly LNAPL recovery has been performed at MW-6. Due to the quantities of LNAPL recovery from the well, the pad was replaced with a hydrophobic passive recovery device on September 6, 1995.

During the third quarter of 1995, absorbent pads were placed in 10 more wells, which had indicated presence of LNAPL, in addition to CW-7 and MW-6. These wells are: MW-8, MW-23, RW1-1, RW6-1, RW6-3, RW7-4, RW7-5, CW-12, CW-15 and CW-16. Following placement of LNAPL recovery pads, these wells were monitored weekly for product recovery. A review of Table 6 indicates that, though LNAPL presence is indicated in the above-mentioned wells due to the presence of LNAPL on the product-interface meter probe, measurable quantities of product have been recovered from MW-6 and CW-7 only. As mentioned earlier, we have modified the product recovery program. These modifications are outlined in Section 2a.

### 3. Ground Water Treatment System

This section includes documentation of Hexcel's efforts regarding evaluation and operation of the existing ground water treatment system. The following subsections provide the details.

#### 3a. Sewer Connection

A contractor has been selected to build the sewer connection. We anticipate that construction will take place in December. After the permit with the local sewer authority has been finalized, Hexcel will be able to discharge to the sewer line. The Construction Notice related to the Stream Encroachment Permit was filed on September 27, 1995.

#### 3b. Evaluation and Testing of Ground Water Recovery System

Hexcel has begun an evaluation of the existing ground water recovery system in anticipation of the construction of the sewer line that will enable full operation of the system. QED Environmental Systems, Inc. (QED) inspected the downhole components of the ground water recovery system on August 2, 1995. QED recommended replacement of the exhaust valves and remote well operators at all the recovery wells. Additionally, an inventory of the recovery well equipment was conducted on August 30 and 31, 1995. The inventory consisted of measurements of pump elevations, visual inspection of pumps and components and evaluation of operating conditions. The inspection and inventory of the equipment indicated that downhole components of the recovery equipment might need replacement to assure proper operation. Other evaluation and testing of the recovery system are planned following completion of the sewer line. The schedule in Section 6 of this progress report includes current estimates for the testing of the system, modification of the design of the system and reporting the modified design to NJDEP.

*Appendix F*

Additionally, in conjunction with the evaluation and testing of the ground water recovery system, four shallow borings were advanced through the basement floor slab of Building I on June 13 and 14, 1995. The borings were advanced a short distance into the clayey confining unit which underlies the site. A layer of fill, varying in thickness from 2 to 5 inches, lies between the floor slab and the confining unit. The basement borings were identified as PB-1, 2, 3 and 4. Three (PB-1, PB-2 and PB-4) borings were screened across the fill and completed as 2-inch diameter well points. At all three well points, the bottom of the screen was set at approximately 2 feet below the floor slab.

### **3c. Treatment of Basement Seepage Water**

Basement seepage water continues to be treated on-site and is being disposed of off-site at the DuPont Chambers Works facility, Deepwater, New Jersey. Disposal documentation has been attached as Appendix D.

### **4. Off-Site Investigation**

Our review of the information obtained from the U.S. Army Corps of Engineers (Army Corps) indicates that there is no evidence of contamination related to the former Hexcel facility across the Saddle River. Hexcel had requested information from the Army Corps regarding monitoring well(s) across the Saddle River from the Hexcel site. In the July Progress Report, we had specified that we will evaluate the existing data upon receipt to determine if the existing data were adequate to meet NJDEP's requirements for off-site investigation or if further ground water sampling (via the existing monitoring well or a Geoprobe sampler) was required. The Army Corps provided us with summary data of extensive chemical testing of a monitoring well across the Saddle River from the Hexcel site. The following paragraphs describe the information obtained and our conclusions.

The Army Corps provided us with excerpts of a draft report on September 6, 1995; the excerpts included the boring log, well construction data and chemical data for a monitoring well installed across the Saddle River from the former Hexcel facility. The location of the well is provided in Appendix E. The soil boring and the monitoring well at this location were labeled as SR 40 and MW-8 respectively by the Army Corps. The draft is dated March 17, 1994 and the accompanying summary data tables are dated January 25, 1994.

We have reviewed the information provided in the draft report. According to the report, the well was installed with a 10 foot length of 2-inch Schedule 40 Poly Vinyl Chloride (PVC) 10 slot screen and a 2-inch Schedule 40 PVC riser. The well was drilled using a hollow-stem auger on October 6, 1993. The total depth of the well was approximately 32 feet. The boring log is provided in Appendix E. Ground water was encountered at 16 feet. A brown, dense clayey silt layer was identified in the 20-21 foot split-spoon sample. The boring was advanced through the clay layer to a depth of 32 feet. According to the log, slight oil odor was observed at approximately 15 feet below the ground surface.

The ground water sample from the monitoring well was analyzed for the following parameters:

- Target Compound List Volatile Organics
- Target Compound List Semi-volatile Organics
- Target Compound List Pesticides
- Target Compound List Herbicides
- Target Compound List PCBs
- Target Analyte List Metals and Cyanides

The summary tables for chemical analysis, excerpted from the Army Corps report, are provided in Appendix E. The following conclusions were presented in the report:

- LNAPL and DNAPL were not detected in the monitoring well.
- Semi-volatile organics, pesticides, PCBs and herbicides were not detected in the ground water sample.
- Only aluminum (24 mg/L), arsenic (0.0042 mg/L), iron (44.4 mg/L), manganese (2.4 mg/L), and lead (0.033 mg/L) were detected in the monitoring well at concentrations that exceeded the NJDEP guidelines.

Our review of the Army Corps data leads us to conclude that there is no evidence of contamination related to Hexcel site across the Saddle River from the site. Furthermore, the auto detailing and repair facilities across the Saddle River have had numerous violations for spills on the banks of the Saddle River. The observation of oil odors in the soil at 15 foot depth reinforces Hexcel's concern that soil and ground water quality across the Saddle River has been affected by activities unrelated to Hexcel.

Hexcel believes that the data from the existing Army Corps well meet the NJDEP's request for off-site investigation across the Saddle River. Further investigation with a Geoprobe is not needed due to the extensive chemical testing performed for the ground water samples. In fact, the quality of information obtained from the Army Corps monitor well is expected to be even better than that attainable with the help of a Geoprobe investigation. The ground water has been analyzed for the numerous parameters listed above and the results have indicated that no volatile organics, semi-volatile organics and PCBs are present above regulatory concern. We recommend no further off site investigation across the Saddle River.

## **5. Waste Disposal Documentation**

Enclosed as Appendix D are manifests and a summary table for waste disposal during July, August and September 1995.

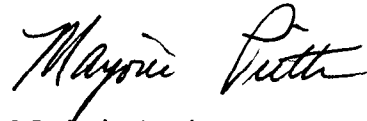


## 6. Schedule and Cost Estimates

Table 7 located in Appendix F presents an updated estimate of the schedule of remaining remedial activities. There has been no change to date in the estimate of cleanup costs.

Sincerely,

GEO ENGINEERING, INC.



Marjorie A. Piette  
Project Manager

MAP/III

Enclosures

cc: A. William Nosil  
Lisa Bromberg, Esq.  
James Higdon

## **Appendix A**

TABLE 1: SUMMARY OF QUARTERLY WATER LEVEL/PRODUCT THICKNESS MEASUREMENTS (7/6/95)  
Former Hexcel Facility  
Lodi, New Jersey

-All measurements in feet -  
-All elevations in feet (NGVD)-

GEO Engineering, Inc.  
October 1995  
File: 94039/wldata/wlevels.xls  
Entered by: SG Checked by: RMS

Well ID	Type	Depth to Water	Depth to Product		Product Thickness	Depth to Bottom	Elevation Top of Casing	Water Elevation	Well Construction (all 4" diameter unless otherwise noted)		
			DNAPL	LNAPL					Type	Casing	Comments
RW Series:											
RW1-1	shallow	5.47	--	--	--	14.25	28.24	22.77	flush	s. steel	Product on probe (LNAPL); TOC Elv. corrected
RW6-1	shallow	3.70	--	--	--	13.70	28.84	25.14	flush	s. steel	Trace product on probe (DNAPL)
RW6-2	shallow	4.05	--	--	--	14.75	29.34	25.29	flush	s. steel	Solid white precipitate on probe
RW6-3	shallow						28.72		flush	s. steel	Well not included in quarterly monitoring plan
RW7-1	shallow	6.08	--	--	--	16.60	26.25	20.17	flush	s. steel	Product on probe (DNAPL)
RW7-2	shallow	6.61	--	--	--	16.79	26.48	19.87	flush	s. steel	
RW7-3	shallow	6.84	--	--	--	17.21	26.78	19.94	flush	s. steel	
RW7-4	shallow	7.22	--	--	--	19.04	27.11	19.89	flush	s. steel	Trace product on probe (DNAPL)
RW7-5	shallow	7.81	--	--	--	19.32	27.57	19.76	flush	s. steel	Trace product on probe (DNAPL)
RW7-6	shallow	7.25	--	--	--	14.96	26.48	19.23	flush	s. steel	
RW7-7	shallow	7.26	--	--	--	14.92	26.89	19.63	flush	s. steel	
RW7-8	shallow	5.86	--	--	--	14.95	25.90	20.04	flush	s. steel	
RW7-9	shallow	7.38	--	--	--	16.10	26.87	19.49	flush	s. steel	
RW7-10	shallow	7.55	--	--	--	14.14	26.10	18.55	flush	s. steel	
RW15-1	shallow	7.77	--	--	--	14.88	29.95	22.18	flush	s. steel	
RW15-2	shallow						30.15		flush	s. steel	Well not included in quarterly monitoring plan
P Series:											
P-1	shallow	7.29	--	--	--	9.86	30.09	22.80	flush	1.5" pvc	
P-2	shallow	8.01	--	--	--	11.80	30.19	22.18	flush	1.5" pvc	Product on probe (LNAPL)
PI Series:											
PI-1	deep						26.90		flush	8" s. steel	Well not included in quarterly monitoring plan

882780011

TABLE 1: SUMMARY OF QUARTERLY WATER LEVEL/PRODUCT THICKNESS MEASUREMENTS (7/6/95)  
Former Hexcel Facility  
Lodi, New Jersey

-All measurements in feet -  
-All elevations in feet (NGVD)-

GEO Engineering, Inc.  
October 1995  
File: 94039/wldata/wlevels.xls  
Entered by: SG Checked by: RMS

Well ID	Type	Depth to Water	Depth to Product		Product Thickness	Depth to Bottom	Elevation Top of Casing	Water Elevation	Well Construction (all 4" diameter unless otherwise noted)		
			DNAPL	LNAPL					Type	Casing	Comments
CW Series:											
CW-1	shallow	7.53	--	--	--	11.42	29.77	22.24	flush	s.steel	
CW-2	shallow						29.51		flush	s.steel	Well not included in quarterly monitoring plan
CW-3	recov.						29.72		flush	s.steel	Well not included in quarterly monitoring plan
CW-4	shallow	6.47	--	--	--	10.94	29.00	22.53	flush	s.steel	
CW-5	recov.						28.67		flush	s.steel	Well not included in quarterly monitoring plan
CW-6	shallow						28.93		flush	s.steel	Well not included in quarterly monitoring plan
CW-7	shallow	7.68	--	--	--	13.96	26.13	18.45	flush	s.steel	Product on probe (LNAPL)
CW-8	shallow	8.54	--	--	--	13.82	26.77	18.23	flush	s.steel	
CW-9	recov.						26.37		flush	s.steel	Well not included in quarterly monitoring plan
CW-10	shallow	7.56	--	--	--	10.21	25.91	18.35	flush	s.steel	
CW-11	recov.						25.74		vaultbox	s.steel	Well not included in quarterly monitoring plan
CW-12	shallow	7.41	--	--	--	13.91	25.71	18.30	flush	s.steel	Product on probe (LNAPL, DNAPL)
CW-13	shallow						26.05		flush	s.steel	Well not included in quarterly monitoring plan
CW-14	shallow	8.50	--	--	--	13.87	26.37	17.87	flush	s.steel	
CW-15	recov.						26.31		flush	s.steel	Well not included in quarterly monitoring plan
CW-16	shallow	8.01	--	--	--	13.90	26.45	18.44	flush	s.steel	Trace product on probe (DNAPL)
CW-17	shallow	7.30	--	--	--	13.90	26.25	18.95	flush	s.steel	
CW-18	recov.						26.61		flush	s.steel	Well not included in quarterly monitoring plan
CW-19	shallow						26.50		flush	s.steel	Well not included in quarterly monitoring plan
CW-20	shallow						26.74		flush	s.steel	Well not included in quarterly monitoring plan
CW-21	recov.						26.77		flush	s.steel	Well not included in quarterly monitoring plan
CW-22	shallow						26.35		flush	s.steel	Well not included in quarterly monitoring plan

882780012

TABLE 1: SUMMARY OF QUARTERLY WATER LEVEL/PRODUCT THICKNESS MEASUREMENTS (7/6/95)  
Former Hexcel Facility  
Lodi, New Jersey

-All measurements in feet -  
-All elevations in feet (NGVD)-

GEO Engineering, Inc.  
October 1995  
File: 94039/wldata/wlevels.xls  
Entered by: SG Checked by: RMS

Well ID	Type	Depth to Water	Depth to Product		Product Thickness	Depth to Bottom	Elevation Top of Casing	Water Elevation	Well Construction (all 4" diameter unless otherwise noted)		
			DNAPL	LNAPL					Type	Casing	Comments
MW Series:											
MW-1	deep	10.54	--	--	--	23.50	32.42	21.88	stickup	pvc	
MW-2	shallow	8.56	--	--	--	10.15	31.00	22.44	stickup	pvc	
MW-3	deep	11.07	--	--	--	30.72	31.13	20.06	stickup	pvc	
MW-4	shallow	7.93	--	--	--	9.86	32.33	24.40	stickup	pvc	
MW-5	deep	11.91	--	--	--	28.30	32.54	20.63	stickup	pvc	
MW-6	shallow	10.31	--	--	--	18.29	30.74	20.43	stickup	pvc	
MW-7	deep	10.45	--	--	--	32.86	30.68	20.23	stickup	pvc	
MW-8	shallow	12.17	--	--	--	17.32	30.26	18.09	stickup	pvc	Product on probe (DNAPL)
MW-9	deep	9.62	--	--	--	29.55	29.83	20.21	stickup	pvc	
MW-10	shallow	12.78	--	--	--	16.75	30.83	18.05	stickup	pvc	
MW-11	deep	10.83	--	--	--	33.67	30.78	19.95	stickup	pvc	
MW-12	shallow	10.84	--	--	--	17.19	31.01	20.17	stickup	pvc	
MW-13	deep	10.48	--	--	--	32.82	31.16	20.68	stickup	pvc	
MW-14	shallow	11.67	--	--	--	15.56	30.70	19.03	stickup	pvc	
MW-15	deep	9.62	--	--	--	25.57	30.77	21.15	stickup	pvc	
MW-16	shallow	7.32	--	--	--	12.28	29.69	22.37	stickup	pvc	
MW-17	shallow	9.72	--	--	--	14.06	31.53	21.81	stickup	pvc	
MW-18	shallow	9.47	--	--	--	11.32	32.23	22.76	stickup	pvc	
MW-19	deep	7.78	--	--	--	26.56	29.08	21.30	stickup	pvc	
MW-20	shallow	5.52	--	--	--	20.01	27.95	22.43	flush	pvc	
MW-21	shallow	9.07	--	--	--	15.08	30.67	21.60	stickup	pvc	
MW-22	shallow	6.08	--	--	--	8.18	28.45	22.37	flush	pvc	
MW-23	shallow	4.90	--	--	--	9.63	27.51	22.61	flush	pvc	
MW-24	shallow	4.21	--	--	--	9.46	26.51	22.30	flush	pvc	
MW-25	shallow	7.58	--	--	--	12.70	26.03	18.45	flush	pvc	

TABLE 1: SUMMARY OF QUARTERLY WATER LEVEL/PRODUCT THICKNESS MEASUREMENTS (7/6/95)  
Former Hexcel Facility  
Lodi, New Jersey

-All measurements in feet -  
-All elevations in feet (NGVD)-

GEO Engineering, Inc.  
October 1995  
File: 94039/wldata/wlevels.xls  
Entered by: SG Checked by: RMS

Well ID	Type	Depth to Water	Depth to Product		Product Thickness	Depth to Bottom	Elevation Top of Casing	Water Elevation	Well Construction (all 4" diameter unless otherwise noted)		
			DNAPL	LNAPL					Type	Casing	Comments
MW Series:											
MW-26	deep	7.58	--	--	--	17.90	28.85	21.27	flush	2" pvc	Trace product on probe (DNAPL)
MW-27	shallow	7.11	--	--	--	12.28	31.43	24.32	stickup	pvc	
MW-28	shallow	10.90	--	--	--	14.75	29.68	18.78	stickup	pvc	
MW-29	shallow	4.71	--	--	--	9.31	27.32	22.61	flush	pvc	
MW-30	shallow	5.51	--	--	--	10.44	28.08	22.57	flush	pvc	
MW-31	shallow	5.49	--	--	--	10.59	27.95	22.46	flush	pvc	
MW-32	shallow	9.03	--	--	--	11.22	32.51	23.48	stickup	pvc	
MW-33	shallow	10.22	--	--	--	16.94	31.72	21.50	stickup	pvc	
PB Series:											
PB-1	shallow	**	--	--	--	3.64	19.13	**	stickup	2" g.steel	
PB-2	shallow	0.49 *	3.39	--	1.23	4.62	19.07	18.58	stickup	2" g.steel	Trace product on probe (DNAPL)
PB-4	shallow	0.58 *	--	--	--	3.68	19.35	18.77	stickup	2" g.steel	

NOTES: All Measurements of depths are from the top of casing unless otherwise noted.

-- : Not detected by product interface meter.

\* : Tape measure used to measure water level.

^ : Top of Casing Elevation corrected from Form B for the well

NA : Not available.

\*\* : Depth to water could not be measured because water level was higher than the top of casing.

Many of the wells have accumulated sediment which results in slight fluctuations in the measurements of depth to bottom.

882780014

TABLE 2: SUMMARY OF WELL CONSTRUCTION DATA  
Former Hexcel Facility  
Lodi, New Jersey

-All measurements in feet -  
-All elevations in feet (NGVD)-

GEO Engineering, Inc.  
October 1995  
File: 94039/wldata/wellscrn.xls  
Sheet: Modified October  
Entered by: SG; Checked by: SJA

Well ID	Type	Ground Elevation	Elevation Top of Casing	Depth to Bottom (From GS)	Length of Screen	Elevation Top of Screen	Depth to Water (07/6/95)	Water Elevation	Well Construction *		Installation		Water Table Elv. > Top of Screen Elv.
									Type	Casing	Date	By	
RW Series:													
RW1-1	shall.	28.67	28.24	15.00	10	23.67	5.47	22.77	flush	s.steel	10/91	Heritage	No
RW6-1	shall.	29.28	28.84	14.00	5	20.28	3.70	25.14	flush	s.steel	8/90	Heritage	Yes
RW6-2	shall.	U	29.34	16.00	5	U	4.05	25.29	flush	s.steel	8/90	Heritage	U
RW6-3	shall.	29.02	28.72	8.60	5	25.42	NI	NI	flush	s.steel	8/90	Heritage	NI
RW7-1	shall.	26.94	26.25	18.00	5	13.94	6.08	20.17	flush	s.steel	8/90	Heritage	Yes
RW7-2	shall.	27.07	26.48	17.50	5	14.57	6.61	19.87	flush	s.steel	8/90	Heritage	Yes
RW7-3	shall.	27.17	26.78	17.50	5	14.67	6.84	19.94	flush	s.steel	8/90	Heritage	Yes
RW7-4	shall.	27.60	27.11	19.00	5	13.60	7.22	19.89	flush	s.steel	8/90	Heritage	Yes
RW7-5	shall.	27.97	27.57	20.00	5	12.97	7.81	19.76	flush	s.steel	9/90	Heritage	Yes
RW7-6	shall.	27.10	26.48	15.00	5	17.10	7.25	19.23	flush	s.steel	9/90	Heritage	Yes
RW7-7	shall.	27.25	26.89	15.00	5	17.25	7.26	19.63	flush	s.steel	9/90	Heritage	Yes
RW7-8	shall.	26.71	25.90	15.00	5	16.71	5.86	20.04	flush	s.steel	9/90	Heritage	Yes
RW7-9	shall.	27.18	26.87	17.00	5	15.18	7.38	19.49	flush	s.steel	2/91	Heritage	Yes
RW7-10	shall.	26.50	26.10	15.00	5	16.50	7.55	18.55	flush	s.steel	2/91	Heritage	Yes
RW15-1	shall.	30.43	29.95	14.75	10	25.68	7.77	22.18	flush	s.steel	8/90	Heritage	No
RW15-2	shall.	30.37	30.15	14.00	10	26.37	NI	NI	flush	s.steel	8/90	Heritage	NI
P Series:													
P-1	shall.	U	30.09	U	U	U	7.29	22.80	flush	1.5" pvc	U	U	U
P-2	shall.	U	30.19	U	U	U	8.01	22.18	flush	1.5" pvc	U	U	U
PI Series:													
PI-1	deep		26.90				NI	NI	flush	s.steel	10/91	Heritage	^

TABLE 2: SUMMARY OF WELL CONSTRUCTION DATA  
Former Hexcel Facility  
Lodi, New Jersey

-All measurements in feet -  
-All elevations in feet (NGVD)-

GEO Engineering, Inc.  
October 1995  
File: 94039/wldata/wellscrm.xls  
Sheet: Modified October  
Entered by: SG; Checked by: SJA

Well ID	Type	Ground Elevation	Elevation Top of Casing	Depth to Bottom (From GS)	Length of Screen	Elevation Top of Screen	Depth to Water (07/6/95)	Water Elevation	Well Construction *		Installation		Water Table Elv. > Top of Screen Elv.
									Type	Casing	Date	By	
CW Series:													
CW-1	shall.	30.27	29.77	12.00	5	23.27	7.53	22.24	flush	s.steel	9/90	Heritage	No
CW-2	shall.	30.11	29.51	12.00	5	23.11	NI	NI	flush	s.steel	9/90	Heritage	NI
CW-3	recov.	U	29.72	12.00	5	U	NI	NI	flush	s.steel	9/90	Heritage	NI
CW-4	shall.	29.10	29.00	11.50	5	22.60	6.47	22.53	flush	s.steel	7/90	Heritage	No
CW-5	recov.	28.89	28.67	11.50	5	22.39	NI	NI	flush	s.steel	7/90	Heritage	NI
CW-6	shall.	29.25	28.93	9.00	5	25.25	NI	NI	flush	s.steel	9/90	Heritage	NI
CW-7	shall.	26.70	26.13	14.00	5	17.70	7.68	18.45	flush	s.steel	8/90	Heritage	Yes
CW-8	shall.	26.70	26.77	14.00	5	17.70	8.54	18.23	flush	s.steel	8/90	Heritage	Yes
CW-9	recov.	26.60	26.37	14.00	5	17.60	NI	NI	flush	s.steel	8/90	Heritage	NI
CW-10	shall.	26.50	25.91	14.00	5	17.50	7.56	18.35	flush	s.steel	8/90	Heritage	Yes
CW-11	recov.	26.60	25.74	14.00	5	17.60	NI	NI	vaultbox	s.steel	8/90	Heritage	NI
CW-12	shall.	26.51	25.71	14.00	5	17.51	7.41	18.30	flush	s.steel	8/90	Heritage	Yes
CW-13	shall.	26.60	26.05	14.00	5	17.60	NI	NI	flush	s.steel	8/90	Heritage	NI
CW-14	shall.	26.70	26.37	14.00	5	17.70	8.50	17.87	flush	s.steel	8/90	Heritage	Yes
CW-15	recov.	26.90	26.31	14.00	5	17.90	NI	NI	flush	s.steel	8/90	Heritage	NI
CW-16	shall.	27.00	26.45	14.00	5	18.00	8.01	18.44	flush	s.steel	8/90	Heritage	Yes
CW-17	shall.	27.10	26.25	14.00	5	18.10	7.30	18.95	flush	s.steel	8/90	Heritage	Yes
CW-18	recov.	27.20	26.61	14.00	5	18.20	NI	NI	flush	s.steel	8/90	Heritage	NI
CW-19	shall.	27.20	26.50	14.00	5	18.20	NI	NI	flush	s.steel	8/90	Heritage	NI
CW-20	shall.	27.30	26.74	14.00	5	18.30	NI	NI	flush	s.steel	8/90	Heritage	NI
CW-21	recov.	27.40	26.77	14.00	5	18.40	NI	NI	flush	s.steel	8/90	Heritage	NI
CW-22	shall.	27.30	26.35	14.00	5	18.30	NI	NI	flush	s.steel	8/90	Heritage	NI



TABLE 2: SUMMARY OF WELL CONSTRUCTION DATA  
Former Hexcel Facility  
Lodi, New Jersey

GEO Engineering, Inc.  
October 1995  
File: 94039/wldata/wellscrm.xls  
Sheet: Modified October  
Entered by: SG; Checked by: SJA

-All measurements in feet -  
-All elevations in feet (NGVD)-

Well ID	Type	Ground Elevation	Elevation Top of Casing	Depth to Bottom (From GS)	Length of Screen	Elevation Top of Screen	Depth to Water (07/6/95)	Water Elevation	Well Construction *		Installation		Water Table Elv. > Top of Screen Elv.
									Type	Casing	Date	By	
MW Series:													
MW-1	deep	29.03	32.42	20.15	5	13.88	10.54	21.88	stickup	pvc	7/88	Environ	**
MW-2	shall.	27.90	31.00	6.77	5	26.13	8.56	22.44	stickup	pvc	8/88	Environ	No
MW-3	deep	27.84	31.13	27.54	5	5.30	11.07	20.06	stickup	pvc	8/88	Environ	**
MW-4	shall.	29.02	32.33	6.53	5	27.49	7.93	24.40	stickup	pvc	8/88	Environ	No
MW-5	deep	29.03	32.54	24.91	5	9.12	11.91	20.63	stickup	pvc	8/88	Environ	**
MW-6	shall.	27.14	30.74	15.02	10	22.12	10.31	20.43	stickup	pvc	8/88	Environ	Yes
MW-7	deep	27.18	30.68	29.63	5	2.55	10.45	20.23	stickup	pvc	7/88	Environ	**
MW-8	shall.	26.92	30.26	13.94	10	22.98	12.17	18.09	stickup	pvc	8/88	Environ	No
MW-9	deep	26.89	29.83	26.80	5	5.09	9.62	20.21	stickup	pvc	7/88	Environ	**
MW-10	shall.	27.33	30.83	13.52	11	24.81	12.78	18.05	stickup	pvc	8/88	Environ	No
MW-11	deep	27.28	30.78	30.42	10	6.86	10.83	19.95	stickup	pvc	7/88	Environ	^
MW-12	shall.	27.62	31.01	13.57	10	24.05	10.84	20.17	stickup	pvc	8/88	Environ	No
MW-13	deep	27.63	31.16	29.74	5	2.89	10.48	20.68	stickup	pvc	7/88	Environ	^
MW-14	shall.	27.12	30.70	11.94	9	24.18	11.67	19.03	stickup	pvc	8/88	Environ	No
MW-15	deep	27.17	30.77	22.04	5	10.13	9.62	21.15	stickup	pvc	7/88	Environ	^
MW-16	shall.	26.71	29.69	9.57	5	22.14	7.32	22.37	stickup	pvc	8/88	Environ	Yes
MW-17	shall.	29.10	31.53	12.00	8	25.10	9.72	21.81	stickup	pvc	1/89	Environ	No
MW-18	shall.	29.04	32.23	8.07	5	25.97	9.47	22.76	stickup	pvc	8/88	Environ	No
MW-19	deep	27.30	29.08	25.00	5	7.30	7.78	21.30	stickup	pvc	1/89	Environ	^
MW-20	shall.	28.50	27.95	20.00	5	13.50	5.52	22.43	flush	pvc	11/90	Heritage	Yes
MW-21	shall.	28.80	30.67	13.00	10	25.80	9.07	21.60	stickup	pvc	9/90	Heritage	No
MW-22	shall.	28.73	28.45	8.50	5	25.23	6.08	22.37	flush	pvc	12/90	Heritage	No
MW-23	shall.	27.83	27.51	10.00	5	22.83	4.90	22.61	flush	pvc	11/90	Heritage	No
MW-24	shall.	26.93	26.51	10.00	5	21.93	4.21	22.30	flush	pvc	11/90	Heritage	No
MW-25	shall.	26.47	26.03	13.00	10	23.47	7.58	18.45	flush	pvc	9/90	Heritage	No

TABLE 2: SUMMARY OF WELL CONSTRUCTION DATA  
Former Hexcel Facility  
Lodi, New Jersey

GEO Engineering, Inc.  
October 1995  
File: 94039/wldata/wellscrm.xls  
Sheet: Modified October  
Entered by: SG; Checked by: SJA

-All measurements in feet -  
-All elevations in feet (NGVD)-

Well ID	Type	Ground Elevation	Elevation Top of Casing	Depth to Bottom (From GS)	Length of Screen	Elevation Top of Screen	Depth to Water (07/6/95)	Water Elevation	Well Construction *		Installation		Water Table Elv. > Top of Screen Elv.
									Type	Casing	Date	By	
MW Series:													
MW-26	deep	29.26	28.85	19.00	2	12.26	7.58	21.27	flush	2" pvc	12/90	Heritage	^
MW-27	shall.	29.10	31.43	10.00	5	24.10	7.11	24.32	stickup	pvc	9/90	Heritage	Yes
MW-28	shall.	27.50	29.68	13.00	10	24.50	10.90	18.78	stickup	pvc	9/90	Heritage	No
MW-29	shall.	27.50	27.32	10.00	5	22.50	4.71	22.61	flush	pvc	2/91	Heritage	Yes
MW-30	shall.	28.25	28.08	11.00	5	22.25	5.51	22.57	flush	pvc	2/91	Heritage	Yes
MW-31	shall.	28.33	27.95	11.00	5	22.33	5.49	22.46	flush	pvc	2/91	Heritage	No
MW-32	shall.	U	32.51	8.00	6	U	9.03	23.48	stickup	pvc	4/92	Heritage	U
MW-33	shall.	U	31.72	14.00	10	U	10.22	21.50	stickup	pvc	4/92	Heritage	U
PB Series:													
PB-1	shallow	17.46	19.13	1.97	1	16.46	**	NA	stickup	2" g.steel	6/95	GEO	Yes
PB-2	shallow	17.50	19.07	2.05	1	16.70	0.49	18.58	stickup	2" g.steel	6/95	GEO	Yes
PB-4	shallow	17.52	19.35	1.85	1	16.72	0.58	18.77	stickup	2" g.steel	6/95	GEO	Yes

NOTES: Refer to "Table 2: Summary of Well Construction Data " provided in Appendix B of Progress Report dated July 31, 1995 for the list of sources used for compiling this table.

All Measurements of depths are from the top of casing unless otherwise noted.

NI : Well not included in the 7/6/95 Quarterly Monitoring or well was inaccessible on that date.

U : Unknown.

\* : All wells 4" diameter unless otherwise noted.

NA : Not available.

^ : Well is screened in the confined aquifer, therefore, the question is not applicable.

\*\* : Depth to water could not be measured because water level was higher than top of casing.

# Contour Map Reporting Form

Site Name: Former Hexcel Facility, Lodi, NJ  
Project No.: 94039

Figure No.: A-1  
Water levels taken on 7/6/95  
Page 1 of 2

1. Did any surveyed well casing elevations change from the previous sampling event? ☐ Yes  
If yes, attach new "Well Certification -Form B" and identify the reason for the elevation change (damage to casing, installation of recovery system in monitoring well, etc.) ☒ No

2. Are there any monitor wells in unconfined aquifers in which the water table elevation is higher than the top of the well screen? ☒ Yes  
If yes, identify these wells. ☐ No

*Monitor wells for which the water table elevations are higher than the top of the well screen are identified in Table 2: Summary of Well Construction Data provided in Appendix A.*

3. Are there any monitor wells present at the site but omitted from the contour map? ☒ Yes  
Unless the omission of the well(s) has been previously approved by the Department, justify the omissions. ☐ No

*Quarterly ground water elevation monitoring plan approved by NJDEP in its June 12, 1995 letter. Also refer to notes on Figure A-1.*

4. Are there any monitor wells containing separate phase product during this measuring event? ☒ Yes  
Were any of the monitor wells with separate phase product included in the ground water contour map? ☐ No  
If yes show the formula used to correct the water table elevation. ☒ Yes  
☐ No

*Separate phase product, where measurable, consists of DNAPL, not LNAPL; therefore, no correction is necessary.*

5. Has the ground water flow direction changed more than 45 degrees from the previous ground water contour map? ☐ Yes  
If yes, discuss the reasons for the change. ☒ No

6. Has ground water mounding and/or depressions been identified in the ground water contour map? ☒ Yes  
Unless the ground water mounds and/or depressions are caused by the ground water remediation system, discuss the reasons for this occurrence. ☐ No

*It is not known why mounding occurs in the vicinity of building 2.*

Site Name: Former Hexcel Facility, Lodi, NJ  
Project No.: 94039

Figure No.: A-1  
Water levels taken on 7/6/95  
Page 2 of 2

7. Are all the wells used in the contour map screened in the same water-bearing zone? ☒ Yes  
If no, justify inclusion of those wells. ☐ No
8. Were the ground water contours  
☒ computer generated, ☐ computer aided, or ☐ hand-drawn?  
If computer aided or generated, identify the interpolation method(s) used.

*Kriging Routine*

# Contour Map Reporting Form

Site Name: Former Hexcel Facility, Lodi, NJ  
Project No.: 94039

Figure No.: A-2  
Water levels taken on 7/6/95  
Page 1 of 1

1. Did any surveyed well casing elevations change from the previous sampling event? ☐ Yes  
If yes, attach new "Well Certification -Form B" and identify the reason for the elevation change (damage to casing, installation of recovery system in monitoring well, etc.) ☒ No
  
2. Are there any monitor wells in unconfined aquifers in which the water table elevation is higher than the top of the well screen? ☐ Yes  
If yes, identify these wells. ☒ No  
  
*Not applicable because confined aquifer.*
  
3. Are there any monitor wells present at the site but omitted from the contour map? ☐ Yes  
Unless the omission of the well(s) has been previously approved by the Department, justify the omissions. ☒ No
  
4. Are there any monitor wells containing separate phase product during this measuring event? ☐ Yes  
☒ No  
  
Were any of the monitor wells with separate phase product included in the ground water contour map? ☐ Yes  
If yes show the formula used to correct the water table elevation. ☒ No
  
5. Has the ground water flow direction changed more than 45 degrees from the previous ground water contour map? ☐ Yes  
If yes, discuss the reasons for the change. ☒ No
  
6. Has ground water mounding and/or depressions been identified in the ground water contour map? ☐ Yes  
Unless the ground water mounds and/or depressions are caused by the ground water remediation system, discuss the reasons for this occurrence. ☒ No
  
7. Are all the wells used in the contour map screened in the same water-bearing zone? ☒ Yes  
If no, justify inclusion of those wells. ☐ No
  
8. Were the ground water contours  
☒ computer generated, ☐ computer aided, or ☐ hand-drawn?  
If computer aided or generated, identify the interpolation method(s) used.

*Kriging method.*

## **Appendix B**

**882780022**

**TABLE 3:** SUMMARY OF MONTHLY WATER LEVEL/PRODUCT THICKNESS MEASUREMENTS  
FOR AUGUST 1995  
Former Hexcel Facility  
Lodi, New Jersey

-All measurements in feet -  
-All elevations in feet (NGVD)-

*GEO Engineering, Inc.*  
October 1995  
File: 94039/wldata/wlevels.xls  
Entered by: RMS Check: SG

MEASUREMENTS COLLECTED 8/10/95

Well ID	Type	Depth to Water	Depth to Product		Product Thickness	Depth to Bottom	Elevation Top of Casing	Water Elevation	Comments
			DNAPL	LNAPL					
CW-7	shallow	7.79	--	--	--	13.97	26.13	18.34	Product on probe (LNAPL)
CW-12	shallow	7.51	--	--	--	13.95	25.71	18.20	Product on probe (DNAPL)
CW-16	shallow	8.08	--	--	--	13.90	26.45	18.37	Product on probe (DNAPL)
MW-6	shallow	10.30 *	--	10.27	0.23	18.23	30.74	20.44	Measured DTW is 10.50; product on probe (LNAPL)
MW-8	shallow	12.25	--	--	--	17.33	30.26	18.01	Product on probe (LNAPL and DNAPL)
MW-23	shallow	4.82	--	--	--	9.66	27.51	22.69	Sediment on probe
MW-26	deep	8.32	17.31	--	0.60	17.91	28.85	20.53	Product on probe (DNAPL)
RW1-1	shallow	5.53	--	--	--	14.28	28.24	22.71	Product on probe (LNAPL)
RW6-1	shallow	3.23	--	--	--	13.72	28.84	25.61	Product on probe (DNAPL), brown floc on probe
RW6-3	shallow	3.93	--	--	--	5.40	28.72	24.79	Brown liquid in annular space of well
RW7-1	shallow	6.14	--	--	--	16.63	26.25	20.11	Product on probe (DNAPL)
RW7-4	shallow	7.27	--	--	--	19.10	27.11	19.84	Product on probe (LNAPL and DNAPL)
RW7-5	shallow	7.86	--	--	--	19.37	27.57	19.71	Product on probe (LNAPL)
P-2	shallow	7.91	--	--	--	11.75	30.06	22.15	Product on probe (LNAPL)
PB-2 **	shallow	0.12	3.48	--	0.15	3.63	19.07	18.95	Product on probe (DNAPL)

NOTES: All Measurements of depths are from the top of casing unless otherwise noted.

-- Not detected by product interface meter.

\* - In wells with LNAPL, water levels are corrected using the equation: DTW (corrected) = DTW (measured) - (Product thickness \* specific gravity).  
Specific gravity of 0.88 used for water level correction (petroleum lubricating oil).

\*\* - Depth to water measured with a steel tape.

Many of the wells have accumulated sediment which results in slight fluctuations in the measurements of depth to bottom.

882780023

**TABLE 4:** SUMMARY OF MONTHLY WATER LEVEL/PRODUCT THICKNESS MEASUREMENTS  
FOR SEPTEMBER 1995  
Former Hexcel Facility  
Lodi, New Jersey

*GEO Engineering, Inc.*  
October 1995  
File: 94039/wldata/wlevels.xls  
Entered by: RMS Check: SG

-All measurements in feet -  
-All elevations in feet (NGVD)-

MEASUREMENTS COLLECTED 9/13/95-9/15/95

Well ID	Type	Date	Depth to Water	Depth to Product		Product Thickness	Depth to Bottom	Elevation Top of Casing	Water Elevation	Comments
				DNAPL	LNAPL					
CW-7	shallow	9/13/95	8.02	--	--	--	13.98	26.13	18.11	Product on probe (LNAPL)
CW-12	shallow	9/14/95	7.78	--	--	--	13.97	25.71	17.93	Product on probe (DNAPL), floc on probe
CW-16	shallow	9/14/95	8.30	--	--	--	13.90	26.45	18.15	Product on probe (DNAPL)
MW-6	shallow	9/14/95	10.64 *	--	10.58	0.46	18.44	30.74	20.10	Measured DTW is 11.04; product on probe (LNAPL)
MW-8	shallow	9/14/95	12.49	--	--	--	17.34	30.26	17.77	Product on probe (DNAPL)
MW-23	shallow	9/13/95	5.45	--	--	--	9.61	27.51	22.06	Sediment on probe
MW-26	deep	9/15/95	14.16	--	--	--	17.91	28.85	14.69	Product on probe (DNAPL)
RW1-1	shallow	9/13/95	5.86	--	--	--	14.27	28.24	22.38	
RW6-1	shallow	9/15/95	3.39	--	--	--	13.72	28.84	25.45	Product on probe (DNAPL),
RW6-3	shallow	9/15/95	4.15	--	--	--	5.42	28.72	24.57	Product on probe (LNAPL); Brown liquid in annular space of well
RW7-1	shallow	9/15/95	6.70	--	--	--	16.62	26.25	19.55	Product on probe (DNAPL)
RW7-4	shallow	9/15/95	7.77	--	--	--	19.05	27.11	19.34	Product on probe (DNAPL)
RW7-5	shallow	9/15/95	8.36	--	--	--	19.40	27.57	19.21	
P-2	shallow	9/13/95	8.61	--	--	--	11.72	30.06	21.45	Product on probe (LNAPL)
PB-2 **	shallow	9/13/95	0.02	3.40	--	0.24	3.64	19.07	19.05	Product on probe (DNAPL)

NOTES: All Measurements of depths are from the top of casing unless otherwise noted.

-- Not detected by product interface meter.

\* - In wells with LNAPL, water levels are corrected using the equation: DTW (corrected) = DTW (measured) - (Product thickness \* specific gravity).

Specific gravity of 0.88 used for water level correction (petroleum lubricating oil).

\*\* - Depth to water measured with a steel tape.

Many of the wells have accumulated sediment which results in slight fluctuations in the measurements of depth to bottom.

882780024



## **Appendix C**

**TABLE 5: SUMMARY OF PRODUCT COLLECTION (DNAPL)**Former Hexcel Facility  
Lodi, New Jersey


October 1995

File: 94039\prodcoll\prodcol2.xls

Sheet: Third QD'95 (DEP)

By: SG Check: RMS

*All Quantities are Expressed in Gallons Rounded to the Nearest 0.1*

DATE	MW-6 (DNAPL)	MW-8 (DNAPL)	MW-26 (DNAPL)	RW6-1 (DNAPL)	RW7-1 (DNAPL)	RW7-4 (DNAPL)	RW7-5 (DNAPL)	CW-12 (DNAPL)	CW-16 (DNAPL)	PB-2 (DNAPL)	CW-15 (DNAPL)	TOTAL VOLUME RECOVERED
7/5/95	0.1	*	*	*	*	*	*	*	*	*	*	
7/12/95	0.1	*	*	*	*	*	*	*	*	0.2	*	
7/20/95	0.1	*	*	*	*	*	*	--	--	0.2	*	
7/26/95	0.1	*	*	*	*	*	*	--	--	0.1	*	
8/2/95	0.1	*	*	*	*	*	*	--	--	0.1	*	
8/10/95	0.1	--	0.1	--	--	--	--	--	--	0.1	*	
8/17/95	0.1	*	--	*	*	*	*	--	--	0.1	*	
8/23/95	--	--	0.1	0.1	0.1	--	--	0.1	--	0.1	*	
8/30/95**											0.5	
8/31/95	0.1	--	0.1	--	0.1	--	--	--	--	--	--	
9/6/95 - 9/7/95	0.1	--	--	--	--	--	--	--	--	0.1	--	
9/13/95 - 9/15/95	--	--	--	--	--	--	--	--	--	0.1	0.2	
9/20/95	--	*	--	*	--	*	*	*	*	0.1	--	
9/26/95	--	*	*	*	*	*	*	*	*	--	--	
TOTAL VOLUME RECOVERED, 3rd QUARTER, 1995	0.9	--	0.3	0.1	0.2	--	--	0.1	--	1.2	0.7	3.5
TOTAL VOLUME RECOVERED, 10/94 - 6/95	6.4	1.0	0.1	--	--	--	--	0.6	0.3	0.1	--	8.5
TOTAL VOLUME RECOVERED	7.3	1.0	0.4	0.1	0.2	--	--	0.7	0.3	1.3	0.7	12.0

**Notes:** For product recovery purposes, quantities greater than 0.1 gallons (approx. 1 cup) are considered to be "measurable". It is not practicable to separate product from mixture of water and product when quantity is less than 1 cup.

\* Well not included in the weekly product recovery program.

-- i) Well was monitored and did not indicate recoverable product or ii) no measurable amount of product was recovered either by bailing or pumping.

\*\* Product was detected in CW-15 when an inventory of recovery well equipment was taken on this date.

GEO Engineering

882780026

**TABLE 6: SUMMARY OF PRODUCT COLLECTION (LNAPL)**Former Hexcel Facility  
Lodi, New Jersey


October 1995

File: 94039\prodcoll\prodcoll2.xls

Sheet: Third QL'95 (DEP)

By: SG Check:

*All Quantities are Expressed in Gallons Rounded to the Nearest 0.1*

DATE	MW-6 (LNAPL)	MW-8 (LNAPL)	MW-23 (LNAPL)	RW1-1 (LNAPL)	RW 6-1 (LNAPL)	RW7-4 (LNAPL)	RW7-5 (LNAPL)	CW-7 (LNAPL)	CW-12 (LNAPL)	CW-15 (LNAPL)	CW-16 (LNAPL)	TOTAL VOLUME RECOVERED
7/5/95	--	*	*	*	*	*	*	--	*	*	*	
7/12/95	--	*	P/NI	P/NI	*	*	*	--	P/NI	*	P/NI	
7/20/95	0.2	*	--	--	*	*	*	--	--	*	--	
7/26/95	0.2	*	--	--	*	*	*	--	--	*	--	
8/2/95	0.2	*	--	--	*	*	*	0.1	--	*	--	
8/10/95	0.8	*	--	--	*	P/NI	*	0.2	--	*	--	
8/17/95	0.2	*	--	--	*	--	*	0.1	--	*	--	
8/23/95	0.2	P/NI	--	--	*	--	*	--	--	*	--	
8/31/95	0.5	--	--	--	P/NI	--	P/NI	--	--	P/NI	--	
9/1/95 **	0.5											
9/5/95 **	0.5											
9/6/95-9/7/95	0.2	--	--	--	--	--	--	--	--	--	--	
9/13/95-9/15/95	1.5	--	--	--	--	--	--	--	--	--	--	
9/20/95	0.75	*	*	*	--	*	--	--	*	--	*	
9/26/95	0.5	*	*	*	*	*	*	--	*	--	*	
TOTAL VOLUME RECOVERED, 3rd QUARTER, 1995	6.3	--	--	--	--	--	--	0.4	--	--	--	6.7
TOTAL VOLUME RECOVERED, 10/94 - 6/95	--	--	--	--	--	--	--	0.4	--	--	--	0.4
TOTAL VOLUME RECOVERED	6.3	--	--	--	--	--	--	0.8	--	--	--	7.1

**Notes:** For product recovery purposes, quantities greater than 0.1 gallons (approx. 1 cup) are considered to be "measurable". It is not practicable to separate product from mixture of water and product when quantity is less than 1 cup.

\* Well not included in the weekly product recovery.

-- i) Monitoring did not indicate recoverable product or ii) no measurable amount of LNAPL was recovered in the absorbent pad.

P/NI An LNAPL recovery pad was installed in the well at this date and the well was included in the weekly product recovery program thereafter.

\*\* Product recovery was performed above and beyond the frequency specified in the proposed recovery plan and was only performed at MW-6.

882780027

## **Appendix D**

## Appendix D

The following table summarizes all disposal documentation for July, August and September 1995. Copies of manifests are included.

<b>Date Accepted at Disposal Facility (unless indicated otherwise)</b>	<b>State Manifest Document Number</b>	<b>Quantity</b>	<b>Comments</b>
7/26/95	NJA 2074659	3,953 gallons	Treated ground water
9/1/95	NJA 2074637	3,584 gallons.	Treated ground water



State of New Jersey  
Department of Environmental Protection and Energy  
Hazardous Waste Regulation Program  
Manifest Section  
CN 421, Trenton, NJ 08625-0421

Please type or print in block letters. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-94

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <b>NJD986584134</b>		Manifest Document No. <b>0101011</b>		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address <b>HEXCEL CORPORATION 205 MAIN ST. Lodi N.J. 07644</b>						A. State Manifest Document Number <b>NJA 2074659</b>			
4. Generator's Phone <b>(201) 472-6800</b>						B. State Generator's ID (Gen. Site Address) <b>SAME</b>			
5. Transporter 1 Company Name <b>FRECHOLD CART CORP. INC.</b>						6. US EPA ID Number <b>NJD054126164</b>		C. State Trans. ID-NJDEPE <b>50265</b>	
7. Transporter 2 Company Name						8. US EPA ID Number		D. Transporter's Phone <b>(908) 462-1001</b>	
9. Designated Facility Name and Site Address <b>EE DUPONT ST. HIGHWAY RT. 130 CHAMBERS WORKS PLANT DEERMAN NJ 07823</b>						10. US EPA ID Number <b>NJD0002385730</b>		E. State Trans. ID-NJDEPE	
11. US DOT Description (Including Proper Shipping Name, Hazard Class or Division, ID Number and Packing Group) <b>HAZARDOUS WASTE LIQUID N.O.S.; 9; NA 302, PG III (F001, F002, F003)</b>						12. Containers No. Type <b>001 TT</b>		13. Total Quantity <b>039 536</b>	
						14. Unit Wt/Vol		15. Waste No. <b>F001 F002 F003</b>	
16. Additional Descriptions for Materials Listed Above <b>LIT F001, F002, F003 PCB &lt; 3 PPM TRACE ORGANIC SOLVENTS &lt; 1% SUSPENDED SOLIDS &lt; 1% DISSOLVED SOLIDS &lt; 1% WATER &gt; 97%</b>						K. Handling Codes for Wastes Listed Above <b>T O 1</b>			
15. Special Handling Instructions and Additional Information <b>CONTRACT # 0W04002 REL-006 ERG # 31 24HR. PHONE 908-462-1001</b>									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. <b>AS AGENT ON BEHALF OF HEXCEL CORP</b>									
Printed/Typed Name <b>Stephen J. Abrusia</b>						Signature <i>Stephen J. Abrusia</i>		Month Day Year <b>07 26 95</b>	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name <b>JERRY CEREZ</b>						Signature <i>Jerry Cerez</i>		Month Day Year <b>07 26 95</b>	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name						Signature		Month Day Year	
19. Discrepancy Indication Space <b>Item I should contain only one waste code - All others in Item J</b>									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Printed/Typed Name <b>NANCY WOODBURY</b>						Signature <i>Nancy Woodbury</i>		Month Day Year <b>07 26 95</b>	



State of New Jersey  
Department of Environmental Protection and Energy  
Hazardous Waste Regulation Program  
Manifest Section  
CN 421, Trenton, NJ 08625-0421

4002  
7 (8)

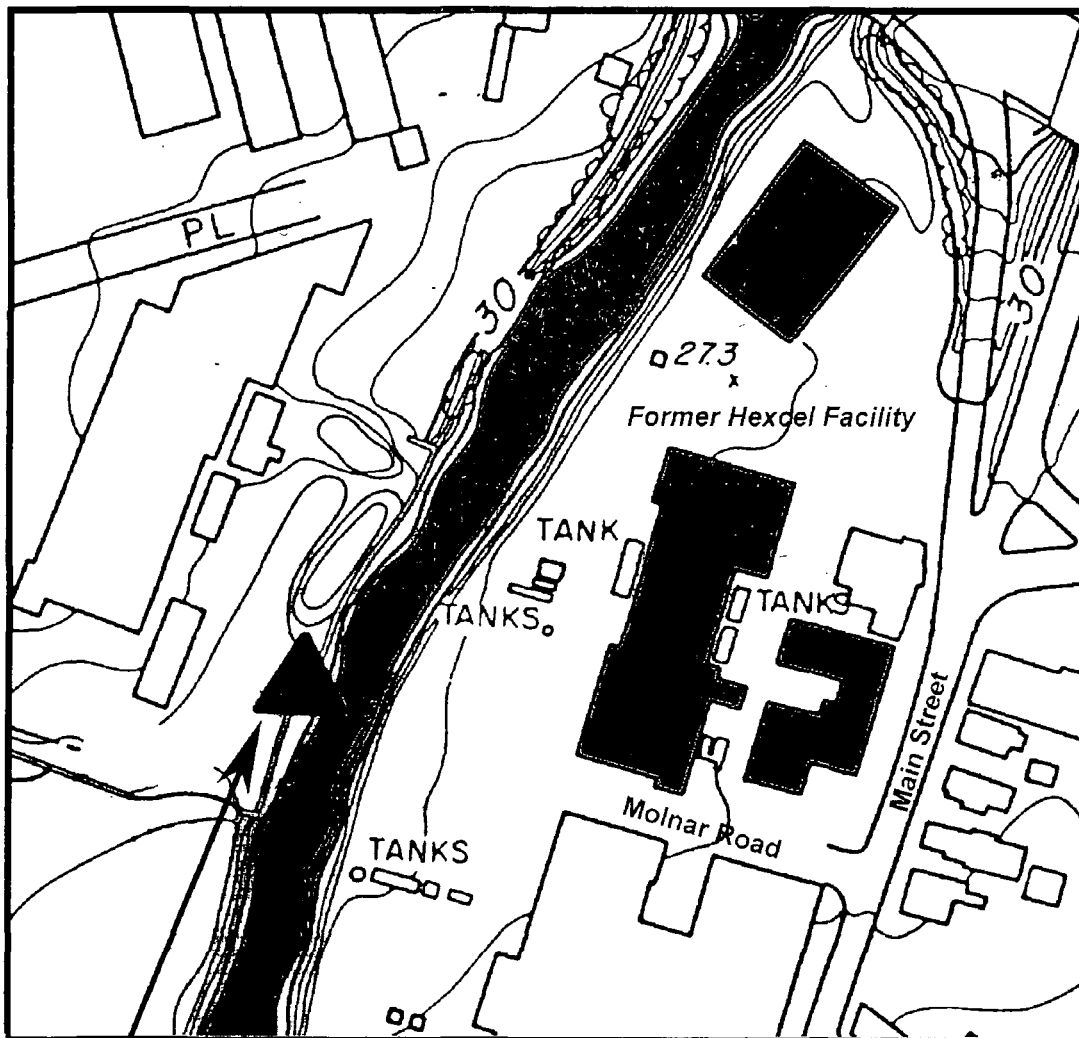
Please type or print in block letters. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-94

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <b>NJD0986584/34</b>		Manifest Document No. <b>0000011</b>		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.							
3. Generator's Name and Mailing Address <b>Hexcel Corporation 205 MAIN ST. LODI NJ. 07644</b>						A. State Manifest Document Number <b>NJA 2074637</b>									
4. Generator's Phone <b>(201) 472-6800</b>						B. State Generator's ID (Gen. Site Address) <b>SAME</b>									
5. Transporter 1 Company Name <b>Freemob (Art) Corp Inc.</b>						6. US EPA ID Number <b>NJD 054126164</b>									
7. Transporter 2 Company Name						C. State Trans. ID-NJDEPE <b>52265</b>									
9. Designated Facility Name and Site Address <b>STOUPANT ST. HIGHWAY RT. 130 CHAMBERS LICKS PLANT DEERWATER NJ. 08023</b>						10. US EPA ID Number <b>NJD 000385730</b>									
11. US DOT Description (Including Proper Shipping Name, Hazard Class or Division, ID Number and Packing Group) <b>HAZARDOUS WASTE LIQUID N.O.S.; 9; (P) NA 3082 PG III (F001, F002, F003)</b>						12. Containers No. Type <b>001 TT X 3584</b>		13. Total Quantity <b>G</b>		14. Unit Wt/Vol <b>602</b>					
15. Special Handling Instructions and Additional Information <b>CONTRACT # 0W04002 REL # 007ERG #31 24 HR. Phone 908-462-1001</b>						K. Handling Codes for Wastes Listed Above <b>T 0 1</b>									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and have selected the treatment, storage, and disposal method currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. <b>AS agent on behalf of Hexcel Corp</b>						Printed/Typed Name <b>Robert M Shusko</b>						Signature <b>Robert M. Shusko</b>		Month Day Year <b>09/01/95</b>	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name <b>FRED BARTHA</b>						Signature <b>Fred Barth</b>						Month Day Year <b>09/01/95</b>			
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name						Signature						Month Day Year			
19. Discrepancy Indication Space															
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Printed/Typed Name <b>DANIEL G. Chomo</b>						Signature <b>Daniel G. Chomo</b>						Month Day Year <b>09/01/95</b>			

## **Appendix E**





--- Approximate Scale: 1" = 150' ---

U.S. Army Corps Monitor Well  
(SR40/MW08)

*Note: Base plan taken from excerpts  
of a draft report provided by U.S.  
Army Corps of Engineers to GEO  
Engineering on 9/6/95.*

*Scale was not provided in the draft  
report and has been estimated.*

## Appendix E

### OFF-SITE INVESTIGATION

Former Hexcel Facility  
Lodi, New Jersey

**GEO** Engineering

882780033

The following pages in Appendix E are copies of excerpts of the draft report provided by the U.S. Army Corps of Engineers.

WESTON			SOIL BORING LOG			PAGE 1 OF 2			
Job Name Saddle River		Boring No. SR 40		Groundwater Level					
Job No. 03886-076-016		Surface Elevation 26'		Date		Depth			
Date Drilled 6 Oct. 1993		Boring Method Hollow Stem Auger		During		16'			
Drilling Co. Testwell - Craig		Completion Depth 32'		drilling					
Drill Foreman John Kozarski		Location Pinto Property							
Logged By B. Zern									
Depth (feet)	Sample No.	Sample Type	Sample Blow Counts (per 6 in.)	N Value	Visual Description	Strat Elev	% Rec	% RQD	Laboratory Test Results
0	1	SS			No spoon taken due to very hard augering first 2.5' - material is concrete and brick rubble, coarse aggregate.				
5	2	SS	42-5-3-2	8	Lite gray, loose, silty fine sand with concrete pieces throughout, damp. Rock in tip of spoon. (ML)		6" 24"		
10	3	SS	3-3-3-4	6	Lite brown, loose fine-medium sand with some silt, rounded gravel pieces; transition at 16' to dark brown silty fine sand, glass pieces, some fine gravel, damp. (SM/ML)		15" 24"		SM or SC (top)
15	4	SS	2-2-1-1	3	Dark brown-black, loose clayey fine to medium sand with some silt, moist; transition at 16' to black, wet medium sand with trace of silt, slight oil odor. (SM). Groundwater at 16'.		24" 24"		SM (top)
20	5	SS	4-13-19 -20	32	Brown, dense clayey silt with few fine gravel pieces, fractured sandstone pieces (1" dia.) in tip. (ML)		8" 24"		ML
25									

Sample type: SS-Split Spoon  
ST-Shelby Tube  
RC-Rock Core

Laboratory Tests MC-Moisture Content  
AL-Atterberg Limits  
S-Sieve Analysis  
SH-Sieve/Hydrometer Analysis  
SG-Specific Gravity

C-Consolidation  
UU-Unconsolidated Undrained Triaxial  
CTU-Consolidated Undrained Triaxial  
UCS-Unconfined Compression Strength  
K-Hydraulic Conductivity

\*ASTM D-1586 Standard Penetration Test

## WESTON

## SOIL BORING LOG

PAGE 2 OF 2

Job Name	Saddle River	Boring No.	SR 40	Groundwater Level	
Job No.	03886-076-016	Surface Elevation	26'	Date	Depth
Date Drilled	6 Oct. 1993	Boring Method	Hollow Stem Auger	During	
Drilling Co.	Testwell - Craig	Completion Depth	32'	drilling	16'
Drill Foreman	John Kozarski	Location	Pinto Property		
Logged By	B. Zern				

Depth (feet)	Sample No.	Sample Type	Sample Blow Counts (per 6 in.)	N Value	Visual Description	Strat Elev	% Rec	% RQD	Laboratory Test Results
25	6	SS	18-11-14 -16	25	Coarse gravel with gray sandstone pieces, may be wash.		4" 24"		
30	7	SS	15-10-10 -12	20	Coarse gravel with river gravel pieces (rounded) last 3". (GP)		10" 24"		
					END OF BORING				

Sample type: SS-Split Spoon  
ST-Shelby Tube  
RC-Rock Core

Laboratory Tests MC-Moisture Content  
AL-Atterberg Limits  
S-Sieve Analysis  
SH-Sieve/Hydrometer Analysis  
SG-Specific Gravity

C-Consolidation  
UU-Unconsolidated Undrained Triaxial  
CTU-Consolidated Undrained Triaxial  
UCS-Unconfined Compression Strength  
K-Hydraulic Conductivity

\*ASTM D-1586 Standard Penetration Test

**TABLE C-1**  
**VOLATILE ORGANIC COMPOUNDS**  
**GROUNDWATER AND SURFACE WATER SAMPLES**

SAMPLE ID	VOLATILE ORGANIC COMPOUNDS (ug/L)																
	Chloro- methane	Bromo- methane	Vinyl Chloride	Chloroethane	Methylene Chloride	Acetone	Carbon Disulfide	1,1 -Dichloro- ethane	1,1 -Dichloro- ethane	1,2 -Dichloro- ethane (total)	Chloroform	1,2 -Dichloro- ethane	2 -Butanone	1,1,1 -Tri- chloroethane	Carbon Tetrachloride	Vinyl Acetate	Bromo-di- chloromethane
MW01-GW-R01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MW03-GW-R01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MW03-GW-D01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MW04-GW-R01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MW05-GW-R01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MW06-GW-R01	BRL	BRL	68	BRL	BRL	BRL	BRL	BRL	5	10	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MW07-GW-R01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MW08-GW-R01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	3 J (5)	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MW08-GW-FB01	BRL	BRL	BRL	BRL	BRL	44	BRL	BRL	BRL	BRL	4 J (5)	BRL	BRL	BRL	BRL	BRL	BRL
MW04-GW-FB01	BRL	BRL	BRL	BRL	BRL	38	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MW08-GW-TB01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MW04-GW-TB01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
SW01-SW-R01	BRL	BRL	BRL	BRL	BRL	41	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
SW02-SW-R01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
SW03-SW-R01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
SW03-SW-TB01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL

BRL - Below Reporting Limit

J - Result is an estimated value below the reporting limit (reporting limit follows in parenthesis)

C-1 (1)

VOCC.XLS

**TABLE C-1**  
**VOLATILE ORGANIC COMPOUNDS**  
**GROUNDWATER AND SURFACE WATER SAMPLES**

SAMPLE ID	VOLATILE ORGANIC COMPOUNDS (ug/L)																
	1,2-Di-chloropropane	cis-1,3-Di-chloropropane	Trichloro-ethene	Dibromo-chloromethane	1,1,2-Tri-chloroethane	Benzene	trans-1,3-Di-chloropropane	Bromoform	4-Methyl-2-pentanone	2-Hexanone	Tetrachloro-ethene	1,1,2,2-Tetra-chloroethane	Toluene	Chloro-benzene	Ethyl-benzene	Styrene	Xylene (total)
MW01-GW-R01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MW03-GW-R01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MW03-GW-D01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MW04-GW-R01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	4 J (5)	BRL	BRL	BRL	BRL	BRL
MW05-GW-R01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MW06-GW-R01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	21	BRL	BRL	BRL
MW07-GW-R01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MW08-GW-R01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MW08-GW-FB01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MW04-GW-FB01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MW08-GW-TB01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MW04-GW-TB01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
SW01-SW-R01	BRL	BRL	2 J (5)	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
SW02-SW-R01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
SW03-SW-R01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
SW03-SW-TB01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL

D-7

882780038

BRL - Below Reporting Limit  
 J - Result is an estimated value below the reporting limit (reporting limit follows in parenthesis)

C-1 (2)

VOCC.XLS

SLE 1  
SEMIVOLATILE ORGANIC COMPOUNDS  
GROUNDWATER AND SURFACE WATER SAMPLES

SAMPLE ID	SEMIVOLATILE ORGANIC COMPOUNDS (ug/L)																	
	Phenol	bis (2-Chloro-ethyl) ether	2-Chloro-phenol	1,3-Dichloro-benzene	1,4-Dichloro-benzene	Benzyl alcohol	1,2-Dichloro-benzene	2-Methyl-phenol	bis (2-Chloro-Isopropyl) ether	4-Methyl-phenol	N-Nitroso-Di-n-propylamine	Hexachloro-ethane	Nitrobenzene	Isophorone	2-Nitro-phenol	2,4-Dimethyl-phenol	Benzolc acid	
MW01-GW-R01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	
MW03-GW-R01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	
MW03-GW-D01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	
MW04-GW-R01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	
MW05-GW-R01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	
MW06-GW-R01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	
MW07-GW-R01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	
MW08-GW-R01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	
MW08-GW-FB01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	
MW04-GW-FB01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	
SW01-SW-R01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	
SW02-SW-R01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	
SW03-SW-R01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	

D-22

882780039

BRL - Below Reporting Limit

J - Result is an estimated value below the reporting limit (reporting limit follows in parenthesis)

C-2 (1)

BNAC.XLS

**TABLE C-2**  
SEMIVOLATILE ORGANIC COMPOUNDS  
GROUNDWATER AND SURFACE WATER SAMPLES

SAMPLE ID	SEMIVOLATILE ORGANIC COMPOUNDS (ug/L)															
	bis (2-Chloro-ethoxy) methane	2,4-Dichloro-phenol	1,2,4-Tri-chlorobenzene	Naphthalene	4-Chloro-aniline	Hexachloro-butadiene	4-Chloro-3-methylphenol	2-Methyl-naphthalene	Hexachloro-cyclopentadiene	2,4,6-Tri-chlorophenol	2,4,5-Tri-chlorophenol	2-Chloro-naphthalene	2-Nitro-aniline	Dimethyl-phthalate	Acenaphthylene	2,6-Di-nitrotoluene
MW01-GW-R01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MW03-GW-R01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MW03-GW-D01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MW04-GW-R01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MW05-GW-R01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MW06-GW-R01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MW07-GW-R01	BRL	BRL	BRL	1 J (10)	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MW08-GW-R01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MW08-GW-FB01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MW04-GW-FB01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
SW01-SW-R01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
SW02-SW-R01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
SW03-SW-R01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL

BRL - Below Reporting Limit

J - Result is an estimated value below the reporting limit (reporting limit follows in parenthesis)

C-2 (2)

BNAC.XLS

D-23

882780040



**TABLE C-3**  
**PESTICIDES, PCBs, AND HERBICIDES**  
**GROUNDWATER AND SURFACE WATER SAMPLES**

SAMPLE ID	PESTICIDES (ug/L)															
	Alpha-BHC	Beta-BHC	Delta-BHC	gamma-BHC (Lindane)	Heptachlor	Aldrin	Heptachlor epoxide	Endosulfan I	Dieldrin	4,4' -DDE	Endrin	Endosulfan II	4,4' -DDD	Endosulfan sulfate	4,4' -DDT	Methoxychlor
MW01-GW-R01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MW03-GW-R01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MW03-GW-D01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MW04-GW-R01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MW05-GW-R01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MW06-GW-R01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MW07-GW-R01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MW08-GW-R01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MW08-GW-FB01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MW04-GW-FB01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
SW01-SW-R01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
SW02-SW-R01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
SW03-SW-R01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL

D-39

882780041

BRL - Below Reporting Limit

C-3 (1)

PESTC.XLS

**TABLE C-3**  
**PESTICIDES, PCBs, AND HERBICIDES**  
**GROUNDWATER AND SURFACE WATER SAMPLES**

SAMPLE ID	PESTICIDES (ug/L)				PCBs (ug/L)							HERBICIDES (ug/L)	
	Endrin ketone	alpha- Chlordane	gamma- Chlordane	Toxaphene	Aroclor - 1016	Aroclor - 1221	Aroclor - 1232	Aroclor - 1242	Aroclor - 1248	Aroclor - 1254	Aroclor - 1260	2,4,5 -TP	2,4 -D
MW01-GW-R01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MW03-GW-R01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MW03-GW-D01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MW04-GW-R01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MW05-GW-R01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MW06-GW-R01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MW07-GW-R01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MW08-GW-R01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MW08-GW-FB01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MW04-GW-FB01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
SW01-SW-R01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
SW02-SW-R01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
SW03-SW-R01	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL

D-40

882780042

BRL - Below Reporting Limit

C-3 (2)

PESTC.XLS

**TABLE C-4**  
**METALS AND CYANIDE**  
**GROUNDWATER AND SURFACE WATER SAMPLES**

SAMPLE ID	TOTAL METALS AND CYANIDE (mg/L)																							
	Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	Hg	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl	V	Zn	CN (Total)
MW01-GW-R01	0.030 U	23.5	0.0032	0.48	0.0050 U	184	0.010 U	0.022	0.043	0.053	50.4	0.00020 U	10.9	26.2	2.3	53.3	0.044	0.027	0.10 U	0.0020 U	0.0020 U	0.061	0.12	0.010 U
MW03-GW-R01	0.030 U	0.20 U	0.0020 U	0.31	0.0050 U	53.0	0.010 U	0.020 U	0.020 U	0.020 U	6.6	0.00020 U	4.1	10.4	1.7	71.0	0.020 U	0.0020 U	0.10 U	0.0020 U	0.0020 U	0.010 U	0.019	0.0050 U
MW03-GW-D01	0.030 U	0.20 U	0.0020 U	0.31	0.0050 U	52.9	0.010 U	0.020 U	0.020 U	0.020 U	6.5	0.00020 U	4.1	10.5	1.7	71.2	0.020 U	0.0021	0.10 U	0.0020 U	0.0020 U	0.010 U	0.018	0.0050 U
MW04-GW-R01	0.030 U	0.26	0.0020 U	0.070	0.0050 U	60.4	0.010 U	0.020 U	0.020 U	0.020 U	0.46	0.00020 U	2.0 U	13.4	0.15	30.1	0.020 U	0.0025	0.10 U	0.010 U	0.0020 U	0.010 U	0.010 U	0.0050 U
MW05-GW-R01	0.030 U	1.4	0.0076	1.2	0.0050 U	438	0.010 U	0.020 U	0.020 U	0.021	57.2	0.00020 U	83.1	32.2	12.7	2740	0.020 U	0.027	0.10 U	0.010 U	0.0020 U	0.010 U	0.029	0.0087
MW06-GW-R01	0.030 U	0.40	0.018	0.18	0.0050 U	84.1	0.010 U	0.020 U	0.020 U	0.020 U	16.3	0.00020 U	5.2	17.1	2.2	30.8	0.020 U	0.0050	0.10 U	0.0020 U	0.0020 U	0.010 U	0.010 U	0.0050 U
MW07-GW-R01	0.030 U	0.57	0.0020 U	0.11	0.0050 U	58.2	0.010 U	0.020 U	0.020 U	0.020 U	4.7	0.00020 U	7.3	6.2	1.1	38.3	0.020 U	0.013	0.10 U	0.0020 U	0.0020 U	0.058	0.016	0.013
MW08-GW-R01	0.030 U	24.0	0.0042	0.55	0.0050 U	90.0	0.010 U	0.020 U	0.059	0.072	44.4	0.00020 U	10.9	26.3	2.4	31.3	0.033	0.033	0.10 U	0.0020 U	0.0020 U	0.050	0.14	0.0050 U
MW08-GW-FB01	0.030 U	0.20 U	0.0020 U	0.050 U	0.0050 U	0.11	0.010 U	0.020 U	0.020 U	0.020 U	0.044	0.00020 U	2.0 U	0.20 U	0.010 U	0.20 U	0.020 U	0.0047	0.10 U	0.0020 U	0.0020 U	0.010 U	0.010 U	0.0050 U
MW04-GW-FB01	0.030 U	0.20 U	0.0020 U	0.050 U	0.0050 U	0.12	0.010 U	0.020 U	0.020 U	0.020 U	0.030	0.00020 U	2.0 U	0.20 U	0.010 U	0.31	0.020 U	0.0020 U	0.10 U	0.0020 U	0.0020 U	0.010 U	0.010 U	0.0050 U
SW01-SW-R01	0.030 U	0.20 U	0.0021	0.16	0.0050 U	68.9	0.010 U	0.020 U	0.020 U	0.020 U	0.54	0.00020 U	2.6	16.2	0.30	34.5	0.020 U	0.0020 U	0.10 U	0.0020 U	0.0020 U	0.010 U	0.021	0.0050 U
SW02-SW-R01	0.030 U	0.20 U	0.0020 U	0.11	0.0050 U	56.3	0.010 U	0.020 U	0.020 U	0.020 U	0.36	0.00020 U	2.0 U	7.7	0.064	26.6	0.020 U	0.0036	0.10 U	0.0020 U	0.0020 U	0.010 U	0.011	0.0050 U
SW03-SW-R01	0.030 U	0.20 U	0.0020 U	0.079	0.0050 U	75.4	0.010 U	0.020 U	0.020 U	0.020 U	0.51	0.00020 U	2.8	16.7	0.12	46.1	0.020 U	0.025	0.10 U	0.0020 U	0.0020 U	0.010 U	0.013	0.010 U

U - Compound was not detected at or above the reporting limit

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882780043

## **Appendix F**

TABLE 7. ESTIMATED SCHEDULE OF REMAINING REMEDIAL ACTIVITIES  
Former Hexcel Facility  
Lodi, New Jersey

1995

TASK DESCRIPTION	1	2	3	4	5	6	7	8	9	10	11	12
<b>GROUND WATER REMEDIATION</b>												
DNAPL/LNAPL recovery (temporary)												
Recover water from basement Bldg. 1												
Obtain permits for sewer construction												
--Stream-encroachment permit												
--Local permits												
Construct new sewer line												
Conduct testing												
--Conduct hydraulic testing												
--Pilot test of recovery system												
--Test ground water off-site												
--Obtain off-site access or data												
Modify design of ground water recov. sys.												
Prep. design proposal for recov. sys.												
NJDEP review of design proposal												
Install permanent recovery system												
Operate and maintain recovery system												
Evaluate need for DNAPL barrier												
Bedrock ground water invest. (MW-1)												
<b>CLEANING OF SEWER LINE</b>												
Cleanout/abandonment of sewer line												
Collect samples (and lab. analysis)												
Disposal of sludge/debris												
<b>SOIL REMEDIATION *</b>												
Soil investigation												
Prepare soil investigation rpt./work plan												
NJDEP review of work plan												
Conduct pilot test (incl. lab. analysis)												
Design air sparging/vapor ext. system												
Obtain permits												
Install soil remediation system												
Operate and maintain system												
<b>SEDIMENT SAMPLING</b>												
Collect samples (and lab. analysis) *												
<b>REPORTING</b>												
Prepare quarterly progress reports												
Prepare report of sediment sampling *												
Prepare final report												
NJDEP review and site inspection												
Case closure												

\* Due to Napp explosion, soil investigation and sediment sampling are being held in abeyance pending receipt of results from Napp.

TABLE 7. ESTIMATED SCHEDULE OF REMAINING REMEDIAL ACTIVITIES  
Former Hexcel Facility  
Lodi, New Jersey

1996

TASK DESCRIPTION	1	2	3	4	5	6	7	8	9	10	11	12
<b>GROUND WATER REMEDIATION</b>												
DNAPL/LNAPL recovery (temporary)												
Recover water from basement Bldg. 1												
Obtain permits for sewer construction												
--Stream-encroachment permit												
--Local permits												
Construct new sewer line												
Conduct testing												
--Conduct hydraulic testing												
--Pilot test of recovery system												
--Test ground water off-site												
--Obtain off-site access or data												
Modify design of ground water recov. sys.												
Prep. design proposal for recov. sys.												
NJDEP review of design proposal												
Install permanent recovery system												
Operate and maintain recovery system												
Evaluate need for DNAPL barrier												
Bedrock ground water invest. (MW-1)												
<b>CLEANING OF SEWER LINE</b>												
Cleanout/abandonment of sewer line												
Collect samples (and lab. analysis)												
Disposal of sludge/debris												
<b>SOIL REMEDIATION *</b>												
Soil investigation												
Prepare soil investigation rpt./work plan												
NJDEP review of work plan												
Conduct pilot test (incl. lab. analysis)												
Design air sparging/vapor ext. system												
Obtain permits												
Install soil remediation system												
Operate and maintain system												
<b>SEDIMENT SAMPLING</b>												
Collect samples (and lab. analysis) *												
<b>REPORTING</b>												
Prepare quarterly progress reports												
Prepare report of sediment sampling *												
Prepare final report												
NJDEP review and site inspection												
Case closure												

\* Due to Napp explosion, soil investigation and sediment sampling are being held in abeyance pending receipt of results from Napp.

TABLE 7. ESTIMATED SCHEDULE OF REMAINING REMEDIAL ACTIVITIES  
Former Hexcel Facility  
Lodi, New Jersey

1997

TASK DESCRIPTION	1	2	3	4	5	6	7	8	9	10	11	12
<b>GROUND WATER REMEDIATION</b>												
DNAPL/LNAPL recovery (temporary)												
Recover water from basement Bldg. 1												
Obtain permits for sewer construction												
--Stream-encroachment permit												
--Local permits												
Construct new sewer line												
Conduct testing												
--Conduct hydraulic testing												
--Pilot test of recovery system												
--Test ground water off-site												
--Obtain off-site access or data												
Modify design of ground water recov. sys.												
Prep. design proposal for recov. sys.												
NJDEP review of design proposal												
Install permanent recovery system												
Operate and maintain recovery system												
Evaluate need for DNAPL barrier												
Bedrock ground water invest. (MW-1)												
<b>CLEANING OF SEWER LINE</b>												
Cleanout/abandonment of sewer line												
Collect samples (and lab. analysis)												
Disposal of sludge/debris												
<b>SOIL REMEDIATION *</b>												
Soil investigation												
Prepare soil investigation rpt./work plan												
NJDEP review of work plan												
Conduct pilot test (incl. lab. analysis)												
Design air sparging/vapor ext. system												
Obtain permits												
Install soil remediation system												
Operate and maintain system												
<b>SEDIMENT SAMPLING</b>												
Collect samples (and lab. analysis) *												
<b>REPORTING</b>												
Prepare quarterly progress reports												
Prepare report of sediment sampling *												
Prepare final report												
NJDEP review and site inspection												
Case closure												

\* Due to Napp explosion, soil investigation and sediment sampling are being held in abeyance pending receipt of results from Napp.

TABLE 7. ESTIMATED SCHEDULE OF REMAINING REMEDIAL ACTIVITIES  
Former Hexcel Facility  
Lodi, New Jersey

1998

TASK DESCRIPTION	1	2	3	4	5	6	7	8	9	10	11	12
<b>GROUND WATER REMEDIATION</b>												
DNAPL/LNAPL recovery (temporary)												
Recover water from basement Bldg. 1												
Obtain permits for sewer construction												
--Stream-encroachment permit												
--Local permits												
Construct new sewer line												
Conduct testing												
--Conduct hydraulic testing												
--Pilot test of recovery system												
--Test ground water off-site												
--Obtain off-site access or data												
Modify design of ground water recov. sys.												
Prep. design proposal for recov. sys.												
NJDEP review of design proposal												
Install permanent recovery system												
Operate and maintain recovery system												
Evaluate need for DNAPL barrier												
Bedrock ground water invest. (MW-1)												
<b>CLEANING OF SEWER LINE</b>												
Cleanout/abandonment of sewer line												
Collect samples (and lab. analysis)												
Disposal of sludge/debris												
<b>SOIL REMEDIATION *</b>												
Soil investigation												
Prepare soil investigation rpt./work plan												
NJDEP review of work plan												
Conduct pilot test (incl. lab. analysis)												
Design air sparging/vapor ext. system												
Obtain permits												
Install soil remediation system												
Operate and maintain system												
<b>SEDIMENT SAMPLING</b>												
Collect samples (and lab. analysis) *												
<b>REPORTING</b>												
Prepare quarterly progress reports												
Prepare report of sediment sampling *												
Prepare final report												
NJDEP review and site inspection												
Case closure												

\* Due to Napp explosion, soil investigation and sediment sampling are being held in abeyance pending receipt of results from Napp.



TABLE 7. ESTIMATED SCHEDULE OF REMAINING REMEDIAL ACTIVITIES  
Former Hexcel Facility  
Lodi, New Jersey

1999

TASK DESCRIPTION	1	2	3	4	5	6	7	8	9	10	11	12
<b>GROUND WATER REMEDIATION</b>												
DNAPL/LNAPL recovery (temporary)												
Recover water from basement Bldg. 1												
Obtain permits for sewer construction												
--Stream-encroachment permit												
--Local permits												
Construct new sewer line												
Conduct testing												
--Conduct hydraulic testing												
--Pilot test of recovery system												
--Test ground water off-site												
--Obtain off-site access or data												
Modify design of ground water recov. sys.												
Prep. design proposal for recov. sys.												
NJDEP review of design proposal												
Install permanent recovery system												
Operate and maintain recovery system												
Evaluate need for DNAPL barrier												
Bedrock ground water invest. (MW-1)												
<b>CLEANING OF SEWER LINE</b>												
Cleanout/abandonment of sewer line												
Collect samples (and lab. analysis)												
Disposal of sludge/debris												
<b>SOIL REMEDIATION *</b>												
Soil investigation												
Prepare soil investigation rpt./work plan												
NJDEP review of work plan												
Conduct pilot test (incl. lab. analysis)												
Design air sparging/vapor ext. system												
Obtain permits												
Install soil remediation system												
Operate and maintain system												
<b>SEDIMENT SAMPLING</b>												
Collect samples (and lab. analysis) *												
<b>REPORTING</b>												
Prepare quarterly progress reports												
Prepare report of sediment sampling *												
Prepare final report												
NJDEP review and site inspection												
Case closure												

\* Due to Napp explosion, soil investigation and sediment sampling are being held in abeyance pending receipt of results from Napp.